

# PATENT COOPERATION TREATY

## PCT

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br><b>OPP021240KR</b>   | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |   |
| International application No.<br><b>PCT/KR 2003/002435</b>  | International filing date ( <i>day/month/year</i> )<br><b>12 November 2003 (12.11.2003)</b>                                   | Priority Date ( <i>day/month/year</i> )<br><b>12 November 2002 (12.11.2002)</b> |
| International Patent Classification (IPC) or national classification and IPC<br><br><b>IPC<sup>7</sup>: G09G 3/36 G02F 1/13</b> |   |   |
| Applicant<br><b>SAMSUNG ELECTRO-MECHANICS CO., LTD</b>  |   |   |

1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of   3   sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of                      sheets.

3. This report contains indications relating to the following items:

- I.      ☒ Basis of the opinion
- II.     ☐ Priority
- III.    ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV.    ☐ Lack of unity of invention
- V.     ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI.    ☐ Certain documents cited
- VII.   ☐ Certain defects in the international application
- VIII. ☐ Certain observations on the international application

|   |   |
|---|---|
| Date of submission of the demand<br><br><b>11.06.2004</b>   | Date of completion of this report<br><br><b>18 February 2005 (18.02.2005)</b>   |
| Name and mailing address of the IPEA/AT<br><b>Austrian Patent Office<br/>Dresdner Straße 87<br/>A-1200 Vienna<br/>Facsimile No. 1/53424/200</b> | Authorized officer<br><br><b>SCHLECHTER B.</b><br><br>Telephone No. 1/53424/448 |

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR 2003/002435

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

☒ the international application as originally filed

☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under Article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_.

☐ the claims, Nos. \_\_\_\_\_.

☐ the drawings, sheets/fig. \_\_\_\_\_.

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/KR 2003/002435

|  |        |      |     |
|--|--------|------|-----|
| V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement   |        |      |     |
| 1. Statement   |        |      |     |
| Novelty (N)  | Claims | 1-14 | YES |
|  | Claims | ---- | NO  |
| Inventive step (IS)  | Claims | 1-14 | YES |
|  | Claims | ---- | NO  |
| Industrial applicability (IA)  | Claims | 1-14 | YES |
|  | Claims | ---- | NO  |
| Citations and explanations (Rule 70.7)   |        |      |     |
| <p>The following documents have been cited in the Search Report:</p> <p>D1: US 20020130830 A1<br/> D2: US 20020118184 A1<br/> D3: KR 20020032018 A<br/> D4: KR 20020017318 A<br/> D5: JP 2002116750 A</p> <p>D1 as well as D2 disclose a LCD controller including a voltage generator for gray voltages,<br/> a data driver for selective gray voltages and a luminance control circuit.<br/> D3 as well as D4 show a LCD controller including a data driver for selective gray voltages<br/> and a luminance control circuit.<br/> D5 shows a gamma correction circuit with 2.2 curve characteristic.</p> <p>As none of the cited documents discloses in combination all claimed features of the main<br/> claims 1 and 11, the subject matter has to be considered novel over the cited art.<br/> Though each of the cited documents discloses features of the claimed subject matter as<br/> referred above, the cited art does not render obvious the claimed features in<br/> combination, as none of the documents gives any hints thereto. Thus novelty and<br/> inventiveness is considered being fulfilled.</p> <p>Industrial applicability is given.</p> |        |      |     |